

## BIRDS THAT LOVE SAP

Observations in a City Garden. A Woodpecker Feast. Curious and Amusing Traits of the Humming Birds. Bird Wisdom and Cunning.

My bird studies, such as they have been, were begun in a city garden. It was not a spot to choose for such a purpose if the world had been before me, yet it was not the worst imaginable. In fact, it had certain real advantages. The narrowness of the field saved me from many distractions, and perhaps from the paralyzing discouragement that is so apt to come over one who has undertaken to break his way into a new department of knowledge with no master or friend to give him a hand over the hard places. A beginner is best off with short lessons. For me, certainly, at that stage of the game, two or three birds a day were plenty. A man to whom a female Maryland yellow-throat was a novelty and a puzzle (how beautiful she was—there were no words to express it) had little need of the whole countryside in which to exploit his ignorance.

So it is that I look back upon my hours in that city garden with nothing but pleasant memories. Even yet, as I cross it now and then, and wonder to see how large the trees have grown, I think of the good times, the mornings of hurry and excitement—for I must see all that was to be seen before the office hours began—that I enjoyed them more than twenty years ago. How gladly I would still spend my mornings about those trim flower beds and shrubby patches, if I could expect to find in them as many "new birds" as I have half as many as they then furnished. I have said it often, and will say it again, the novice is the man to be envied. I was like Adam in his garden; for to me, almost as truly as to him, the world was just made.

Well, it was then and there that I saw my first yellow-bellied woodpecker, or sapsucker as the bird is otherwise called. I discovered him one morning in early April, when a white bird, even half as many as they then furnished. I have said it often, and will say it again, the novice is the man to be envied. I was like Adam in his garden; for to me, almost as truly as to him, the world was just made.

I stayed by him till the last moment, when he flew away. I knew not what to call him, but at dinner time, to my delight, he was still in the same tree. And there he remained for four days. What most surprised me was the fact of his keeping so persistently to that maple trunk. He had drilled a few holes in the bark, the sap was running, and he was drinking it. Evidently he was an expert; one of the feathered creatures who are born with a sweet tooth; and his name, I said to myself, suited him to a dot, for by this time I had consulted my one bird book (dear old Minot) and had made him out.

A CHEERFUL COMPANY. Twenty-three years afterward, in August last, I was driving with my friend in Franconia, N. H., when we turned into a farm road which crosses a broad river meadow on one side of which is a large swamp. "Mr. — used often to go in there," my friend remarked. "He found some rare plants there and I should think the place ought to be a birdy." "Very good," said I, while you are down by the river hunting for insects, I will push into the swamp a little way and see what I can see. It was a very little way indeed. The sunny edges of a wood are almost invariably more populous than its darker interior, and I was hardly in the shadow of the first trees before I found myself surrounded by a cheerful company: phoebes, wood pewees, king birds, myrtle warblers, cedar waxwings, and especially both kinds of crossbills. Then, going a few steps farther, I came upon two white birches in which were several sapsuckers and two or three humming-birds. At a height of fifteen or twenty feet from the ground the bark of the trees had been perforated thickly with small holes for the space of two feet, more or less, and from these holes, or at least from some of them, sap was running.

I could stay only a few minutes, but it was evident at the first glance what was going on. The woodpeckers had prepared a feast, and the humming birds had come unbidden to share it. They were in a very lively mood (the hummers, I mean), hovering before the holes, squeaking at a great rate (sure sign of excitement), and now and then (another sign of excitement) spreading their handsome tails. The behavior of the woodpeckers was exactly opposite—sluggish to the last degree—as if they had sat at table so long and eaten so much as to be almost incapable of stirring.

This was on August 12. The next afternoon, though the place was several miles from my hotel, I was there again, and found both woodpeckers and hummers present when I arrived. This time I discovered that a few of the smaller branches had been tapped, as well as the main trunks. "It was very pretty," my notebook says, "to see the humming birds, with the sun on their shining green backs, hovering before the holes in the bark." Once an Antiope butterfly (one of our largest species) fluttered about the trees and finally came to rest upon one of the holes and stayed a long time. It is a good thing to think of, that any real work we do, though it be done only from a selfish motive, is likely to prove of benefit to others as well as to ourselves. "No man liveth to himself," the Bible says, and the same is true of woodpeckers.

LAZY WOODPECKERS. Two days after I made the place a third visit. One of the sapsuckers was on duty as I came up and one of the humming birds appeared within five minutes. Now for the first time I saw that the woodpecker, who seemed to be "camped" there, as my pencil expressed it, was evidently resentful of the smaller bird's presence. And why not? Has a woodpecker no right to the results of his own industry? So far as I could make out there was no actual coming to blows, but I saw many gestures and motions, as to the hostile significance of which there could be no manner of doubt. Certainly the hummer had none. Once, in fact, the little fellow was fairly put to flight. At this, just to see what would happen, I went up so close to the tree that the woodpecker himself deemed it prudent to withdraw, though he moved only to a neighboring tree, instantly the hummer returned and fell to enjoying himself. To his way of thinking I must have been a very benevolent gentleman, but he said nothing or nothing that I understood. I was so near him that I could see his shining throat. All things considered, his was a pretty innocent kind of poaching. It seemed to me.

I moved away for a few rods, the woodpecker came back, and in another minute a second one joined him. And there the two remained until I wearied of watching them. It was such laziness as one would hardly have expected of any bird. A long period of motionless waiting, a sudden dip of the bill into one of the holes, out of which it came glistening with sap—another long wait, another dip, and so on indefinitely. If the humming bird had not stirred the sluggish creature to activity now and then, they would surely have fallen asleep. Such indolence and gormandizing must be ruinous to any bird's health, or all our human notions of hygiene are erroneous. I believe in a leisurely, unhurried life, and am perhaps almost too fond of preaching its gospel; but not to sit all day at table guzzling sweets!

THREE WEEKS' FEED. One thing and another hindered me from going to the spot again for sixteen days. Then I stepped up to the tree, and behold, there were the two sapsuckers flattened against it, exactly as I had left them. No doubt they had been there day after day. I tarried but a few minutes and saw no humming bird. One thing I did see, though it had no connection with the woodpeckers and their doings. That was a Cape May warbler, a very choice variety of New England at any time, and the only one that I had ever seen in Franconia, after the nesting season. To look for one thing is a good way to find something else. At least this is true in the practice of field ornithology. It is one of the great attractions of that gentle science.

Two days afterwards one sapsucker was still feeding. That is to say, I saw one. Rain was falling before I reached the rendezvous, and I did nothing more than to run from the carriage into the swamp and out again. Without much doubt the bird had company within half.

This was on the 24 of September—my first visit had been on Aug. 12. For three weeks, then, the birds had been living on that sap. Not improbably they had been doing so for as many weeks before I happened to find them. How much longer they stay continued I have no means of telling. I went to look for them on Sept. 17, and they were gone. By that time, we may guess, they were on their way to winter quarters, in Mexico, perhaps, or Costa Rica, or the West Indies, though it is hard to believe that they could be in prime condition for such a journey after a month or two of uninterrupted "sapsucking."

It must not be supposed that I am writing of this entire habit of the yellow-bellied woodpecker as if I had discovered something new. I had only discovered it for myself. The very name "sapsucker" is proof that the bird's method of feeding has long been a matter of knowledge. Frank Bolger, whose untimely death a few years ago is still deeply lamented by all American nature lovers, was very patient and elaborate studies of the subject, especially with a view to determining whether the birds lived chiefly upon the sap, or, as some had assumed, upon the insects which the flowing sap attracted.

He went so far as to shoot several adult birds while they were living upon such "orchards" as I have described and subjected their stomachs to examination. Then he caught three young ones and kept them in captivity. The first experiment showed that sap was probably the main article of diet, while the second proved that the birds could exist and for a season thrive on nothing but diluted maple syrup. In fact, they were only too ready to do so. They grew indifferently fat, and after about three months died rather suddenly of "enlargement of the fatty degeneration of the liver." So the physician reported to whom the little birds had been sent for autopsy.

In a wild state a change of season would have compelled them sooner to adopt a change of diet. Even in a state of nature, however, as I have already said, the gormandizing of the sapsuckers has all the appearance of a good thing overdone. If I might venture a guess as to the cause, I should say that the birds would live longer and the species be more common if they had never discovered this very luxurious method of subsistence. In their case, as in that of human beings, ease is the mother of disease. High living is short living.

BRADFORD TORREY, Wellesley Hills, Mass.

## QUESTIONS AND ANSWERS.

How did Judas Iscariot die?—W. He strangled himself.

State who played "The Spirit of Romance" of Marsac? and when was it played last in Indianapolis?—G. B. It was played but once, last season, by Macklyn Arbuckle.

Is there a law to compel school teachers to keep the American flag up over school buildings?—J. C. W. If so, when was the law enacted?—Reader.

There is no such law, either state or national.

In what year was the Black Hawk war? In what year was the great fire in New York? In what year was Andrew Jackson elected President?—J. C. W. In 1832, 1837, and 1845, respectively.

Where do monsoons occur, in China or Japan?—J. C. W. In both, but more marked in China, sea.

Here the name monsoon was given first, but it now is applied to periodic, alternating winds elsewhere.

Are there any public lands in Missouri, and if so, where are they located? Also, is there a government land office in the state?—J. C. W. There are 281,000 acres vacant and subject to entry, and United States land offices at Booneville, Ironton and Springfield.

What horses hold the world's record in trotting and pacing, and what are the records?—J. C. W. Trotting, Ceresco, one mile, 2:24, made Aug. 2, 1901, at Columbus, O. Pacing, Star Point, one mile, 1:59, Aug. 28, 1897, at Readville, Mass.

When was the first time used, and by whom was it invented?—Grace. It was developed and first employed successfully at Strasburg, in 1787, by Francois Blanchard, the aeronaut, who was present.

PROOF POSITIVE. Mand—You say he is getting familiar with you? Ethel—Yes, he's gotten to wearing the same necktie twice in succession when he calls.

turned to the United States in 1832 and in 1837 was appointed American consul at Tunis, holding the office until his death there, April 10, 1852. His remains were re-interred at Washington in 1883. He was "an exile from home" as a matter of choice, you see. His mother died when he was thirteen.

Where does the word "Amoskeag" originate? 2. Where is the largest depot in the world? 3. Where is the longest bridge in the world and the one involving most difficult engineering? Name the five largest cities in the world.

It is of Indian origin, the terminal "keag" signifying river or stream. 2. If you mean railroad passenger station the new Union station in Boston is the largest. 3. The Victoria tubular bridge, over the St. Lawrence at Montreal, is probably the longest, measuring, with its approaches, 2,048 feet. Other large bridges are the Parkersburg (W. Va.) bridge, 7,045 feet; St. Charles bridge, Missouri, 6,586 feet; the Brooklyn bridge, 6,537 feet; and the East River bridge, New York, 5,589 feet. The Victoria and Brooklyn bridges involved very skillful engineering, but the length of a bridge is not an indication of its engineering importance.

I have the rules of basketball, but can't understand them, will you explain the following points: 1. Of a team of five, two "forwards" are toward the sides about three-fourths the way to the enemy's goal, two "backs" are behind them, closer together and near their home goal, and the "center" is about midway between the other four. 3. Certainly, any player has a right to get the ball at any time while it is in the field of play, provided only that he handles the ball and does not touch the opponent's goals or try to prevent the opponent from shooting. 4. Certainly, any player has a right to get the ball at any time while it is in the field of play, provided only that he handles the ball and does not touch the opponent's goals or try to prevent the opponent from shooting.

Will you name the wives of Henry VIII? 2. Who of his children reigned? 3. From whom comes the present House of Stuart? 4. Who was the first Stuart? 5. Who was the last Stuart? 6. Who was the first Stuart? 7. Who was the last Stuart? 8. Who was the first Stuart? 9. Who was the last Stuart? 10. Who was the first Stuart? 11. Who was the last Stuart? 12. Who was the first Stuart? 13. Who was the last Stuart? 14. Who was the first Stuart? 15. Who was the last Stuart? 16. Who was the first Stuart? 17. Who was the last Stuart? 18. Who was the first Stuart? 19. Who was the last Stuart? 20. Who was the first Stuart? 21. Who was the last Stuart? 22. Who was the first Stuart? 23. Who was the last Stuart? 24. Who was the first Stuart? 25. Who was the last Stuart? 26. Who was the first Stuart? 27. Who was the last Stuart? 28. Who was the first Stuart? 29. Who was the last Stuart? 30. Who was the first Stuart? 31. Who was the last Stuart? 32. Who was the first Stuart? 33. 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